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ISBN:0-8186-7852-6**Author** [W. Amos Tiao](#)**Publisher** IEEE Computer Society Washington, DC, USA**Additional Information:** [abstract](#) [index terms](#)**Tools and Actions:** [Discussions](#) [Find similar Articles](#) [Review this Article](#)
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↑ ABSTRACT

We present a unified model to analyze three different buffered allocation strategies, first-in-first-out (FIFO), statically allocated fully connected (SAFC), and statically allocated multi-queue (SAMQ), and two flow control schemes, local flow control and global flow control, under bursty traffic patterns. We also conduct comparisons between the local and global flow control schemes and among these three buffer allocation strategies. It has shown that the network can improve its performance by applying the local flow control and using the multi-queue buffered allocation strategy.

↑ INDEX TERMS

Keywords:

ATM networks, FIFO, asynchronous transfer mode, bursty traffic patterns, first-in-first-out, global flow control, local flow control, modeling, multi-queue buffered allocation, network performance, statically allocated fully connected, statically allocated multi-queue

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Modeling the buffer allocation strategies and flow control schemes in ATM networks

W. Amos Tiao, Dept. of Comput. Sci., Texas A&M Univ., College Station,
TX, USA

Full Article Text:

DOI Bookmark:<http://doi.ieeecomputersociety.org/10.1109/ISCC.1997.615968>**Abstract**

We present a unified model to analyze three different buffered allocation strategies, first-in-first-out (FIFO), statically allocated fully connected (SAFC), and statically allocated multi-queue (SAMQ), and two flow control schemes, local flow control and global flow control, under bursty traffic patterns. We also conduct comparisons between the local and global flow control schemes and among these three buffer allocation strategies. It has shown that the network can improve its performance by applying the local flow control and using the multi-queue buffered allocation strategy.

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Index Terms- asynchronous transfer mode; network performance; ATM networks; modeling; first-in-first-out; FIFO; statically allocated fully connected; statically

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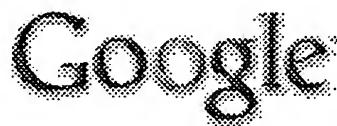
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10818159	Not Issued	20	04/05/2004	Services for capturing and modeling computer usage	GEORGIOU, CHRISTOS
10604557	Not Issued	30	07/30/2003	METHOD AND SYSTEM OF EFFICIENT PACKET REORDERING	GEORGIOU, CHRISTOS J
09682688	Not Issued	83	10/05/2001	Programmable storage network protocol handler architecture	GEORGIOU, CHRISTOS J.
09682689	6904040	150	10/05/2001	PACKET PREPROCESSING INTERFACE FOR MULTIPROCESSOR NETWORK HANDLER	GEORGIOU, CHRISTOS J.
09683777	Not Issued	92	02/13/2002	INBOUND DATA STREAM CONTROLLER WITH PRE-RECOGNITION OF FRAME SEQUENCE	GEORGIOU, CHRISTOS J.
10604491	Not Issued	30	07/25/2003	SELF-CONTAINED PROCESSOR SUBSYSTEM AS COMPONENT FOR SYSTEM-ON-CHIP DESIGN	GEORGIOU, CHRISTOS J.
10674962	Not Issued	20	09/30/2003	Method and system for on-demand allocation of a dynamic network of services	GEORGIOU, CHRISTOS J.
10768828	Not Issued	20	01/30/2004	Single chip protocol converter	GEORGIOU, CHRISTOS J.
06321109	Not Issued	161	11/13/1981	SWITCHING ARCHITECTURE FOR MULTIPROCESSOR COMPUTER SYSTEMS	GEORGIOU, CHRISTOS J.
06544652	4605928	150	10/24/1983	FAULT-TOLERANT ARRAY OF CROSS-POINT SWITCHING MATRICES	GEORGIOU, CHRISTOS


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09682688	Not Issued	83	10/05/2001	Programmable storage network protocol handler architecture	SALAPURA, VALENTINA
09682689	6904040	150	10/05/2001	PACKET PREPROCESSING INTERFACE FOR MULTIPROCESSOR NETWORK HANDLER	SALAPURA, VALENTINA
09683863	6836808	150	02/25/2002	PIPELINED PACKET PROCESSING	SALAPURA, VALENTINA
09940709	Not Issued	71	08/28/2001	Configurable memory array	SALAPURA, VALENTINA
10085606	Not Issued	71	02/26/2002	Method and apparatus for prioritized instruction issue queue in a processor	SALAPURA, VALENTINA
10150270	6948082	150	05/17/2002	METHOD AND APPARATUS FOR SOFTWARE-ASSISTED THERMAL MANAGEMENT FOR ELECTRONIC SYSTEMS	SALAPURA, VALENTINA
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